APPENDIX B

PA INFORMATION SOURCES

This appendix provides lists of information sources often useful to PA investigations. The lists are organized in two ways:

- ! Lists beginning on page B-2 identify information sources by category and explain information provided by each source. The categories are:
 - -- Databases
 - -- Maps and aerial photographs
 - -- Files
 - -- Expert and other sources
- ! The reverse approach begins on page B-12. Categories of information needs are listed and appropriate information sources are identified for each. The categories are:
 - -- General site information
 - -- Source and waste characteristics
 - -- Ground water use and characteristics
 - -- Surface water use and characteristics
 - -- Soil exposure characteristics
 - -- Air characteristics

More complete listings of PA information sources are available in EPA's "Site Assessment Information Directory." This reference volume provides office names, addresses, and telephone numbers of Federal, State, county, and municipal information sources.

PA INFORMATION SOURCES

(Organized by Information Source)

DATABASES

Source: CERCLIS (Comprehensive Environmental Response, Compensation, and

Liability Information System)

Provides: EPA's inventory of potential hazardous waste sites. Provides site name, EPA

identification number, site address, and the dates and types of previous

investigations.

Supports: Site location and general descriptive information.

Contact: EPA Regional office

Source: HWDMS (Hazardous Waste Data Management System)

Provides: EPA's inventory of hazardous waste producers. Contains information such as

facility type, status, and ownership; RCRA status and permits held; treatment,

storage, and disposal activities; amount of wastes generated.

Supports: Site descriptive information and operational history, information on waste types

and quantities.

Contact: EPA Regional office

Source: RCRA (Resource Conservation and Recovery Act) Database Printouts

Provides: EPA's inventory of hazardous waste generators. Contains facility name, address,

phone number, and contact name; EPA identification number; treatment, storage,

and disposal history; and date of notification.

Supports: Site descriptive information and operational history, information on waste types

and quantities.

Contact: EPA Regional office

Source: NPDES (National Pollutant Discharge Elimination System) Database Printouts

Provides: EPA's list of sites which have (or had) permits for wastewater disposal.

Supports: Site descriptive information and operational history, information on waste types

and quantities, permits.

Contact: EPA Regional office

Source: PATHSCAN

Provides: Identifies surface water drinking water intakes and populations served.

Supports: Locations of surface water drinking water intakes; populations served by surface

water drinking water intakes; stream flow of surface water bodies.

Contact: EPA's Office of Water Regulations and Standards

Source: WellFax

Provides: National Water Well Association's inventory of municipal and community water

supplies. Identifies public and private wells within specified distances around a

point location and the number of households served by each.

Supports: Drinking water populations served by ground water.

Contact: National Water Well Association (NWWA)

6375 Riverside Drive Dublin, Ohio 43017

Source: Graphical Exposure Modeling System (GEMS)

Provides: EPA's database of U.S. census data. Provides residential populations in specified

distance rings around a point location.

Supports: Residential populations.

Contact: EPA's Office of Toxic Substances

Source: National Planning Data Corporation (NPDC)

Provides: Commercial database of U.S. census data. Provides residential populations in

specified distance rings around a point location.

Supports: Residential populations.

Contact: National Planning Data Corporation

20 Terrace Hill

Ithaca, New York 14850-5686

Source: STORET

Provides: EPA's repository of water quality data for waterways within the United States. The

system is capable of performing a broad range of reporting, statistical analysis,

and graphics functions.

Supports: Geographic and descriptive information on various waterways; analytical data

from surface water, fish tissue, and sediment samples; stream flow data.

Contact: EPA Regional office

Source: Federal Reporting Data System (FRDS)

Provides: General information on public water supply utilities using ground water or surface

water, updated annually. Developed for monitoring compliance with the Safe

Drinking Water Act of 1974.

Supports: Name and address of public water supply, facility location, hydrological

identification, water source type and name, population served.

Contact: EPA's Office of Drinking Water

Source: WATSTORE

Provides: U.S. Geological Survey's National Water Data Storage and Retrieval System.

Administered by the Water Resources Division and contains the Ground Water Site Inventory file (GWSI). This provides physical, hydrologic, and geologic data about test holes, springs, tunnels, drains, ponds, other excavations, and outcrops.

Supports: Information such as local subsurface water level and use, hydrogeologic unit

description, lithology, etc.

Contact: U.S. Geological Survey or USGS Regional or Field office

12201 Sunrise Valley Drive

Reston, VA 22092

Source: Compliance Monitoring and Enforcement Logs (CMELs)

Provides: EPA's summary of compliance monitoring and enforcement logs used to review

the compliance and enforcement history of a facility and to correct and update the

date in HWDMS.

Supports: Site descriptive information and operational history, information on waste types

and quantities.

Contact: EPA Regional office

MAPS AND AERIAL PHOTOGRAPHS

Source: U.S. Geological Survey (USGS) Topographic Quadrangles

Provides: Maps detailing topographic, geographical, political, and cultural features.

Available in 7.5- and 15-minute series.

Supports: Site location and environmental setting; latitude/longitude; houses, schools, and

other buildings; distances to targets; surface water body types; drainage routes;

wetlands and sensitive environments; karst terrain features.

Contact: U.S. Geological Survey or USGS Regional or Field office

12201 Sunrise Valley Drive

Reston, VA 22092

Source: National Wetland Inventory Maps

Provides: Maps delineating boundaries and acreage of wetlands.

Supports: Environmental setting and wetlands locations.

U.S. Geological Survey 12201 Sunrise Valley Drive

Reston, VA 22092

or U.S. Fish and Wildlife Service

18th and C Streets, NW Washington, DC 20240

Source: Ecological Inventory Maps

Contact:

Provides: Maps delineating sensitive environments and habitats, including special land use

areas, wetlands, study areas, and native plant and animal species.

Supports: Environmental setting, sensitive environments, wetland locations and size.

Contact: U.S. Geological Survey or U.S. Fish and Wildlife Service

12201 Sunrise Valley Drive 18th and C Streets, NW Reston, VA 22092 Washington, DC 20240

Source: Flood Insurance Rate Maps (FIRM)

Provides: Maps delineating flood hazard boundaries for flood insurance purposes.

Supports: Flood frequency.

Contact: Federal Emergency Management or Local Zoning and Planning office

Agency (FEMA)

Federal Insurance Administration

Office of Risk Assessment

500 C Street, SW Washington, DC 20472

Source: State Department of Transportation Maps

Provides: State maps detailing road systems, surface water systems, and other

geographical, cultural, and political features.

Supports: Site location and environmental setting, distances to targets, wetlands, and

sensitive environments.

Contact: State or Local Government Agency

Source: Geologic and Bedrock Maps

Provides: Maps detailing surficial exposure and outcrop of formations for interpreting

subsurface geology. Bedrock maps describe depth and lateral distribution of

bedrock.

Supports: General stratigraphy beneath and surrounding the site.

Contact: U.S. Geological Survey or USGS Regional or Field Office

12201 Sunrise Valley Drive State Geological Survey Office

Reston, VA 22092

Source: Aerial Photographs

Provides: Black and white and/or color photographic images topographic, physical, and

cultural features.

Supports: Site location and size, location and extent of waste sources, identification of

surrounding surficial geology, distances to targets, wetlands and sensitive environments. May provide information on historical site operations, waste

quantity, and waste handling practices.

Contact: State Department of Transportation

Local Zoning and Planning office County Tax Assessor's office

Colleges and Universities (geology or geography departments) EPA's Environmental Monitoring Services Laboratory (EMSL) EPA's Environmental Photographic Interpretation Center (EPIC)

U.S. Army Corps of Engineers

U.S. Department of Agriculture, Forest Service

U.S. Geological Survey

FILES

Source: Office project files

Provides: Site investigation reports, logbooks, telecons, references, etc.

Supports: Information on nearby sites such as town populations, public and private water

supplies, well locations, targets, and general stratigraphy descriptions.

Source: EPA Regional Office files

Provides: Historical information on CERCLIS sites, permits, violations, and notifications.

Supports: General site information and operational history, source descriptions, waste

quantities and waste handling practices. May provide results of previous site

investigations.

Source: State Environmental Agency files

Provides: Historical site information, permits, violations, and notifications.

Supports: General site information and operational history, source descriptions, waste

quantities and waste handling practices. May provide results of previous site

investigations.

EXPERT AND OTHER SOURCES

Source: U.S. Geological Survey

Provides: Geologic, hydrogeologic, and hydraulic information including maps, reports,

studies, and databases.

Supports: General stratigraphy descriptions, karst terrain, depth to aquifer, stream flow,

or

USGS Regional or Field office

ground water and surface water use and characteristics.

Contact: U.S. Geological Survey

12201 Sunrise Valley Drive

Reston, VA 22092

Source: U.S. Army Corps of Engineers

Provides: Records and data surrounding engineering projects involving surface waters.

Supports: Ground water and surface water characteristics, stream flow, locations of

wetlands and sensitive environments.

Contact: U.S. Army Corps of Engineers

Source: State Geological Survey

Provides: State-specific geologic and hydrogeologic information including maps, reports,

studies, and databases.

Supports: General stratigraphy descriptions, karst terrain, depth to aquifer, ground water

use and characteristics.

Contact: State Geological Survey (Local or Field office)

Source: Natural Heritage Program

Provides: Information on Federal and State designated endangered and threatened plants,

animals, and natural communities. Maps, lists, and general information may be

available.

Supports: Location of sensitive environments and wetlands.

Contact: State Environmental Agency

Source: U.S. Fish and Wildlife Service

Provides: Environmental information.

Supports: Locations of sensitive environments, wetlands, fisheries; surface water

characteristics and stream flow.

Contact: U.S. Fish and Wildlife Service

18th & C Streets, NW Washington, DC 20240

or U.S. Fish and Wildlife Service

Regional office

Source: Local Fish and Wildlife Officials

Provides: Local environmental information.

Supports: Locations of sensitive environments, wetlands, fisheries; surface water

characteristics and stream flow.

Contact: State or Local Environmental Agency

State or Local Game or Conservation office

Source: Local Tax Assessor

Provides: Past and present land ownership records, lot and building sizes, assessors

maps. May also provide historical aerial photographs.

Supports: Name of present and past owners/operators, years of ownership, size of site,

and operational history.

Contact: Local Town Government office

Source: Local Water Authority

Provides: Public and private water supply information, including service area maps, well

locations and depths, well logs, surface water intake locations, information

regarding water supply contamination.

Supports: Locations and populations served by municipal and private drinking water

sources (wells and surface water intakes), pumpage and production, blended systems, depth to aquifer, general stratigraphic descriptions, ground water and

surface water characteristics, stream flow.

Contact: Local Town Government office

Source: Local Health Department

Provides: Information and reports regarding health-related problems that may be

associated with a site. Information on private and municipal water supplies, and

onsite monitoring wells.

Supports: Primary/secondary targets differentiation, locations and characteristics of public

and private drinking water supplies, possible identification of hazardous

substances present at the site.

Contact: Local Town Government office

Source: Local Zoning board or Planning Commission

Provides: Records of local land development, including historical land use and ownership,

and general stratigraphy descriptions.

Supports: General site description and history, previous ownership, and land use.

Contact: Local Town Government office

Source: Local Fire Department

Provides: Records of underground storage tanks in the area, material safety data sheets

(MSDS) for local commercial and industrial businesses, and other information

on hazardous substances used by those businesses.

Supports: Location and use of underground storage tanks and other potential sources of

hazardous substances, identification of hazardous substances present at the

site.

Contact: Local Town Government office

Source: Local Well Drillers

Provides: Public and private water supply information including well locations and depths,

well logs, pumpage and production.

Supports: Populations served by private and municipal drinking water wells, depth to

aguifer, general stratigraphic information.

Source: Local University or College

Provides: Geology/environmental studies departments may have relevant published

materials (reports, theses, dissertations) and faculty experts knowledgeable in

local geologic, hydrologic, and environmental conditions.

Supports: General stratigraphic information, ground water and surface water use and

characteristics, stream flow.

Source:	Site Reconnaissance
Provides:	Onsite and/or offsite visual observation of the site and surrounding area.
Supports:	General site information; source identification and descriptions; general ground water, surface water, soil, and air pathway characteristics; nearby targets; probable point of entry to surface water.

PA INFORMATION SOURCES (Organized by Information Need)

GENERAL SITE INFORMATION

Site Location, Latitude/Longitude

Type of Operation and Site Status

CERCLIS

USGS Topographic Maps

State Department of Transportation Maps

Site Reconnaissance

EPA Regional Office Files

State Environmental Agency Files

Site Reconnaissance

HWDMS NPDES CMELS

Owner/Operator Information

EPA Regional Office Files State Environmental Agency Files

Local Tax Assessor

HWDMS NPDES CMELS Environmental Setting, Size of Site

USGS Topographic Maps Aerial Photographs Site Reconnaissance

SOURCE AND WASTE CHARACTERISTICS

Source Types, Locations, Sizes

EPA Regional Office Files

State Environmental Agency Files

Aerial Photographs Site Reconnaissance Hazardous Substances Present

EPA Regional Office Files

State Environmental Agency Files

RCRA HWDMS NPDES

Local Health Department Local Fire Department

Waste Types and Quantities

EPA Rregional Office Files

State Environmental Agency Files

RCRA HWDMS NPDES

CMELS

Local Fire Department Aerial Photographs

Site Reconnaissance

GROUND WATER USE AND CHARACTERISTICS

General Stratigraphy

USGS Topographic Maps U.S. Geological Survey State Geological Surveys Geologic and Bedrock Maps

Local Experts

Local University or College

Karst Terrian

USGS Topographic Maps U.S. Geological Survey State Geological Surveys Geologic and Bedrock Maps

Local Experts

Local University or College

Depth to Aquifer

U.S. Geological Survey State Geological Surveys Geologic and Bedrock Maps Local Well Drillers

Local Experts

FRDS

WATSTORE

Private and Municipal Wells

Local Water Authority Local Health Department

Local Well Drillers

State Environmental Agency files

WellFax FRDS

WATSTORE

<u>Distance to Nearest Drinking Water Well</u>

USGS Topographic Maps Local Water Authority Local Well Drillers

Local Health Department

WellFax FRDS

WATSTORE

Site Reconnaissance

Wellhead Protection Areas

State Environmental Agency

Local Water Authority Local Well Drillers

Local Health Department EPA Regional Water Officials

SURFACE WATER USE AND CHARACTERISTICS

Surface Water Body Types

USGS Topographic Maps State Department of Transportation Maps Aerial Photographs Site Reconnaissance

Distance to Nearest Surface Water Body Fisheries

USGS Topographic Maps State Department of Transportation Maps Aerial Photographs Site Reconnaissance

Surface Water Flow Characteristics

U.S. Geological Survey
State Environmental Agency
U.S. Army Corps of Engineers
Local Water Authority
PATHSCAN
STORET
FRDS
WATSTORE

Flood Frequency at the Site

Federal Emergency Management Agency State Environmental Agency

Local Water Authority USGS Topographic Maps U.S. Army Corps of Engineers State Environmental Agency

PATHSCAN FRDS

Drinking Water Intakes

U.S. Fish and Wildlife Service State Environmental Agency Local Fish and Wildlife Officials

Sensitive Environments

USGS Topographic Maps
State Department of Transportation Maps
State Environmental Agency
U.S. Fish and Wildlife Service
Local Fish and Wildlife Officials
National Wetland Inventory Maps
Ecological Inventory Maps
Natural Heritage Program

SOIL EXPOSURE CHARACTERISTICS

Number of People Living Within 200 feet Schools or Day Care Within 200 feet

Site Reconnaissance
USGS Topographic Maps
USGS Topographic Maps

Aerial Photographs Local Street Maps

Number of Workers Onsite Locations of Terrestrial Sensitive Environments

Site Reconnaissance USGS Topographic Maps

Owner/Operator Interviews State Department of Transportation Maps

State Environmental Agency U.S. Fish and Wildlife Service Local Fish and Wildlife Officials Ecological Inventory Maps Natural Heritage Program

AIR PATHWAY CHARACTERISTICS

<u>Populations Within Four Miles</u>
<u>Locations of Sensitive Environments, Acreage</u>

of Wetlands

GEMS

NPDC USGS Topographic Maps

USGS Topographic Maps

State Department of Transportation Maps

Site Reconnaissance State Environmental Agency

U.S. Fish and Wildlife Service

<u>Distance to Nearest Individual</u>
Local Fish and Wildlife Officials
National Wetland Inventory Maps

national wetland inventory wa

USGS Topographic Maps
Site Reconnaissance
Ecological Inventory Maps
Natural Heritage Program